



Electro-Voice®

a MARK IV company

Model AC24M/AC24S Phantom Power Supply

SPECIFICATIONS

Type:

Regulated dc power supply

Output Voltage:

24 V dc $\pm 2\%$

Maximum Output Load Current:

72 mA

Unbalanced Hum and Noise Level at

Microphone; A Weighted:

1 μ V (typical)

Equivalent Phantom Source Resistance:

1215 ohms $\pm 1\%$

Regulation,

Line:

105-125 V 0.2% typical

Load:

0-72 mA 0.2% typical

Crosstalk Between Any Two Microphone

Inputs:

120 dB (typical)

Input Line Voltage:

105-125 V 50/60 Hz

Power Line Consumption:

4 watts maximum

Phasing:

Positive voltage on pin 2 of input provides positive voltage on pin 2 of output

Connectors:

3 pin professional XLR-type

Dimensions,

AC24M:

55 mm (2 $\frac{1}{32}$ in.) high,

155 mm (6 $\frac{1}{8}$ in.) wide,

127 mm (5 in.) deep

AC24S:

62 mm (2 $\frac{7}{16}$ in.) high,

158 mm (6 $\frac{1}{32}$ in.) wide,

127 mm (5 in.) deep

Weight,

AC24M:

1172 grams (2 lb, 9 oz)

AC24S:

963 grams (2 lb, 2 oz)

DESCRIPTION

The Electro-Voice Model AC24M is a remote ac power supply designed for use with condenser microphones. Inserted in the microphone line between the microphone and the mixer, the AC24M provides 24 volts dc via the phantom method. The AC24M will power two microphones directly and with the use of the AC24S expander modules, will power approximately ten microphones, depending upon current required for each microphone.

The AC24S expander module is designed for use with the AC24M. Utilizing a mechanical nesting concept, the AC24S mates with the AC24M to provide a rugged mechanical package. The AC24S draws the power it requires from the AC24M power supply and distributes it to four additional sets of microphone connectors. There is a connector on the top of the expander module that will accept additional AC24S expander modules. The stacking of additional expander modules increases the total number of microphones that the AC24M is capable of powering. **NOTE:** The AC24S must be used in conjunction with the AC24M.

The AC24M is ready for use as it comes in the box. The power supply requires 105 to

120 volts ac, 50 to 60 Hz, for proper operation. The power supply may be inserted anywhere in the microphone line between the microphone and the mixer input.

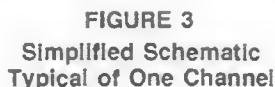
OPERATION OF THE AC24M/AC24S

The power cord of the AC24M should be plugged into an outlet providing 105 to 120 volts ac (50 to 60 Hz).

The power supply is connected in line between the microphone requiring power and the mixer input. The microphone is connected via a standard microphone cable to the female XLR-type chassis connector on the AC24M labeled "From Microphone." The male XLR-type chassis connector labeled "To Mixer" is connected via a microphone cable to the mixer input. Because there are two channels of power available on the AC24M and four channels on the AC24S, be careful to use the correct input/output connector combinations. The proper connector combination is identified by the arrows on the top of the supply. The mating connector for the female XLR is located directly across the box.

No pads, filters or signal conditioners of any type should be inserted between the microphone and the power supply.

The AC24M and AC24S are intended to work into a balanced load only. This includes equipment having input transformers with either floating or grounded center-tap primaries, and balanced, operational amplifier inputs.



Specifications subject to change
without notice.